

Technical qualities

DECORSIL FIRENZE by OIKOS is a water-repellent, vapour permeable coating that offers outstanding resistance. Formulated with quartz powder with a maximum grain size of 0.3mm, It allows the realisation of the: cloud effect, antique effect, orange peel effect. The product contains siloxanic resins in water dispersion, which guarantee excellent resistance to climatic conditions, leave unaltered the transpiration of the surface, and prevent the development of moulds and algae. Furthermore, the product is resistant to acids and frost- thaw cycles. Thanks to its water repellence, DECORSIL FIRENZE keeps masonry dry and improves energy saving; it also assures the best hygienic conditions and house comfort. It can be used as finish coat both on high diffusion plasters and on all wall surfaces. For its special characteristics, the product is recommended above all for prestige buildings and for the refurbishment of old town areas. In the event that an even greater level of protection against mould and algae is needed, it is recommended to add the indicated additive STERYLPLUS to the product. It has a low odour level, is non-inflammable and is friendly to both humans and the environment.

Ideal use

Exterior walls of prestigious buildings, recommended for high diffusion plasters.

Surface preparation

Surfaces must be completely dry and mature, new plaster must mature for at least 30 days to allow complete carbonisation of the surface. Clean the surfaces to be decorated and remove loose or flaking materials. In case of new plasters, make sure the substrate is thoroughly dry. In case of restoration works, repair water infiltration or leaks. Allow the wall to dry, then apply the special primer DECORSIL PRIMER or DECORSIL PRIMER PIGMENTATO by OIKOS. Allow the primer to dry for 12 hours then apply the finishing products.

Finishes

To obtain a paint wash effect, once dry, apply one coat of VELDECOR by OIKOS and work the product over the surface with a brush, sponge or glove by OIKOS.

The product

Composition	Siloxanic resins in water dispersion, titanium dioxide, mineral fillers, preservatives and additives aimed at helping application and film formation
Specific weight	1,5kg/l ±3% (white)
Grain size	Max 0,3mm
pH	8.5 ÷ 9.5
Viscosity	30,000 ±5% CPS Brookfield (RVT 20 r.p.m. at 25°C)
Storage temperature	+2°C ÷ +36°C. Keep from freezing
Reaction to fire	None if applied on a non-flammable surface: water based material with a dry thickness of 0,600mm.
Water absorption W_{24}	0,08 kg/m ² .h0.5 DIN 52 617 (max. allowed limit 0.5 kg/m ² .h0.5 DIN 52 617)
Permeability to water vapour Sd	0.2m (max. allowed limit 2 m DIN 52 615)
Resistance to washing	In compliance to DIN 53 778, resistant at least 1,000 abrasive circles
Resistance to abrasion	In compliance to DIN 53 778, resistant at least 5,000 abrasive circles
Emission limits of Volatile Organic Compounds (VOC) according to directive 2004/42/CE	<ul style="list-style-type: none"> • Classification: A/c • VOC: 38g/l (max) • Phase I limits (from 1.1.2007): 75g/l • Phase II limits (from 1.1.2010): 40g/l
Colours	White and shades from the colour chart
Packaging	Liters 4 - 14

The application

Dilution	Ready to use for "Orange Peel" effect, 5% with drinkable water for "Antique" and "Nuvolato"
Yield	<ul style="list-style-type: none"> • 3m²/l in one coat for "Orange Peel" effect • 3m²/l in two coats for "Antique" effect • 5 ÷ 6m²/l in one coat for "Cloud" effect
Application tools	Short hair brush, medium-grain sponge roller, cloth pad
Primers	DECORSIL PRIMER PIGMENTATO, DECORSIL PRIMER by OIKOS.
Application temperature	+5°C ÷ +36°C (with relative humidity not exceeding 80%)
Drying time until touch dry	2 ÷ 3 h (temperature = 20°C with relative humidity at 75%)
Total drying time	12 - 14 h (temperature = 20°C with relative humidity at 75%)
Tools cleaning	Water

Application Method

- **Antique finish:** apply two coats of DECORSIL FIRENZE by OIKOS by using a shorthaired brush and work crossing the brush strokes. Wait 6 hours between coats. Dilute the product with 5% drinkable water for both coats.
- **Orange peel finish:** apply a single coat of DECORSIL FIRENZE by OIKOS not diluted, by using the special medium-grain sponge roller to achieve the desired finish.
- **Cloud finish:** apply one coat of DECORSIL VENEZIA by OIKOS diluted with 5 ÷ 10% drinkable water by using a short-hair flat brush crossing the brush-strokes. Allow 6 hours to dry, then apply a coat of DECORSIL FIRENZE by OIKOS diluted with 5% drinkable water, using a shorthaired brush crossing the brush-strokes. Wait 15 ÷ 20 min., then rub over the surface with a cloth pad to achieve the desired light/dark contrast of the cloud effect.

Specifications

Clean the surfaces to be decorated and remove loose or flaking materials. In case of new plasters, make sure the substrate is thoroughly dry. In case of restoration works, repair water infiltrations or leakages. Allow the wall to dry, then apply a special salt blocking primer such as DECORSIL PRIMER or DECORSIL PIGMENTATO by OIKOS. Allow the primer to dry for 12 hours, then evenly apply a mineral coating such as DECORSIL FIRENZE by OIKOS. All must be carried out following closely all application instructions, cost..... per m² including application and materials. Scaffolding not included.

Safety information

The product is free of heavy metals such as lead or chrome. It does not contain toxic solvents, aromatics or chlorides. There is no risk of any dangerous polymerisation. The product is considered to be a non-dangerous substance if used in the technically correct manner. Normal cautionary measures for the handling of water based paints are advised. No special arrangements are required for the storage, movement and transportation of the product; the containers, residue, eventual spilt material should be cleaned up using absorbent inert material such as sand, soil etc. etc. and then disposed of in accordance with the regional and national regulations in force at that time. Transportation must be carried out in accordance with international agreements.